

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for performing aggregate-portion-specific flow shaping in a packet-switched telecommunication system comprising at least one buffer memory and a multiplexer, ~~the~~ in which method comprising:

- ~~transferring~~ digital information ~~is transferred~~ as constant or variable-length packets to the at least one buffer memory;

~~the packets arrive in the system as~~ at least two separate traffic flows (V_1 - V_L , traffic flow),

- defining at least ~~two~~ one shaping groups (k), each of which includes at least one of the at least two traffic flows (V_1 - V_L) ~~arriving in the system is defined in the system, and~~

- setting restrictions of speed properties (e.g., CIR, PIR, CBS) ~~are set for the~~ at least two ~~one~~ shaping groups (k), ~~which includes at least two traffic flows (V_1 - V_L) arriving in the system,~~

characterized in that

- defining ~~an~~ the earliest permitted moment, at which a packet ~~in the system~~ can be forwarded by the multiplexer from the system, is defined as a the greatest value of the Valid Time to Send - values of the at least two ~~all the~~ shaping groups (k), ~~to which shaping groups (k) a the traffic flow (V_1 - V_L) represented by the packet~~ to be forwarded belongs, and

- as a result of ~~the forwarding of~~ the packet, updating the Valid Time to Send -values of the same shaping groups (k) to which the forwarded packet belongs, a ~~are updated, in which the~~ Valid Time to Send -value of each ~~an individual~~ shaping group (k) expressing an ~~es~~ the earliest permitted moment, at which a packet belonging to that ~~under the relevant~~ shaping group (k) can be forwarded, without breaking ~~the~~ restrictions of ~~the~~ speed properties of that ~~the~~ shaping group

~~(k) being examined.~~

2. (Currently Amended) A method according to Claim 1, ~~wherein characterized in that the~~ all traffic flows ~~(V1-VL)~~ contained in a first ~~at least one~~ shaping group ~~(k)~~ are ~~all~~ also included in a second ~~some second~~ shaping group ~~(hierarchical shaping)~~.

3. (Currently Amended) ~~Equipment~~ A system for performing aggregate-portion-specific flow shaping in packet-switched telecommunications, ~~in which the system comprising: equipment includes~~

- means for receiving constant or variable-length packets carrying digital information;

- a controller configured to: ~~means for~~

_____ - classify ~~ing~~ a packet arriving in the system as representing one of the traffic flows ~~(V1-VL, traffic flow)~~ arriving in the system, and

_____ - ~~means for~~ define ing at least ~~two~~one shaping groups ~~(k)~~ in the system, in such a way that each shaping group ~~(k)~~ includinges at least one of the traffic flows ~~(V1-VL)~~ arriving in the system, and

_____ - ~~means for~~ set ting restrictions ~~(e.g., CIR, PIR, CBS)~~ of ~~for the~~ speed properties for the ~~at each least two~~one such shaping groups; ~~(k), which includes at least two traffic flows (V1-VL) arriving in the system, and~~

- means for forwarding the packets to an outgoing link or links,

wherein the controller is further configured to:

characterized in that the equipment includes

~~_____~~ - means, ~~which the aid of which it is possible to define an the earliest permitted moment,~~
at which a packet ~~in the system~~ can be forwarded, as ~~a greatest the largest~~ value of ~~all the Valid~~
Time to Send ~~-values of the at least two~~ the shaping groups ~~(k)~~, to which ~~shaping groups (k) the~~
traffic flow represented by the packet to be forwarded belongs, and

~~_____~~ - ~~with the aid of which means it is possible to update, as a response to forwarding the~~
~~packet, the Valid Time to Send -values of the same shaping groups (k) to which the forwarded~~
~~packet belongs, a as a consequence of forwarding the packet, in which the Valid Time to Send -~~
value of each ~~an individual~~ shaping group ~~(k)~~ expressing ~~an es~~ the earliest permitted moment, at
which a packet under that ~~the~~ shaping group ~~(k) in question~~ can be forwarded, without breaking
the restrictions of the speed properties of that ~~the~~ shaping group ~~being examined~~.

4. (Currently Amended) ~~Equipment~~ The system according to Claim 3, wherein characterized in
that the controller is further configured ~~equipment includes means for, with the aid of which it is~~
~~possible to define all the traffic flows (V1-VL) contained in a first at least one shaping group (k)~~
to as belong also ing to a some second shaping group ~~(hierarehal shaping)~~.